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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,156	09/19/2000	Haruko Inoue	0819-425	9764
7590	12/17/2003		EXAMINER	
Eric J Robinson Nixon Peabody LLP Suite 800 8180 Greensboro Drive McLean, VA 22102				LOKE, STEVEN HO YIN
			ART UNIT	PAPER NUMBER
			2811	
DATE MAILED: 12/17/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/666,156	INOUE ET AL.	
	Examiner Steven Loke	Art Unit 2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 29 September 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 5 and 8-14 is/are pending in the application.

4a) Of the above claim(s) 8-11 is/are withdrawn from consideration.

5) Claim(s) 12-14 is/are allowed.

6) Claim(s) 5 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 15,16.

4) Interview Summary (PTO-413) Paper No(s) _____.

5) Notice of Informal Patent Application (PTO-152)

6) Other: _____

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 5 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ishii (Japanese patent no. 04062975 in the IDS filed on 6/16/03).

Ishii shows all the elements of the claimed invention in fig. 1. It is a high-voltage MOS transistor wherein a dopant concentration of a source offset region [5] is set lower than a dopant concentration of a drain offset region [6] (see the CONSTITUTION of the Abstract). Since the source offset region [5] and the drain offset region [6] are separated from each other and formed at different steps, the resistance value of the source region [5] is set independently of a resistance value of the drain region [6]. The source region [5] and the drain region [6] together would form a high-voltage MOS transistor having a high sustaining breakdown voltage. The high sustaining breakdown voltage also depends on a voltage at the source offset region [5] and a voltage of the substrate region [1] at the channel region which is directly under the gate insulating film during operation of the high-voltage MOS transistor because the dopant concentration of the source offset region [5] and the dopant concentration of the substrate region [1] at the channel region would also affect the overall breakdown voltage of the high voltage transistor.

3. Claims 12-14 are allowed.

4. The following is a statement of reasons for the indication of allowable subject matter: The first major difference in the claims not found in the prior art of record is a dopant concentration of a source offset region is set lower than a dopant concentration of a drain offset region such that the following inequality is not satisfied during operation of the high voltage transistor: $VW - (a \text{ forward biased breakdown voltage of silicon}) > VS$. The second major difference in the claim not found in the prior art of record is similar to the second reason of allowance as set forth in page 3, paragraph 5 of the last office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (703) 308-4920. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

sl
December 11, 2003

Steven Loke
Primary Examiner

